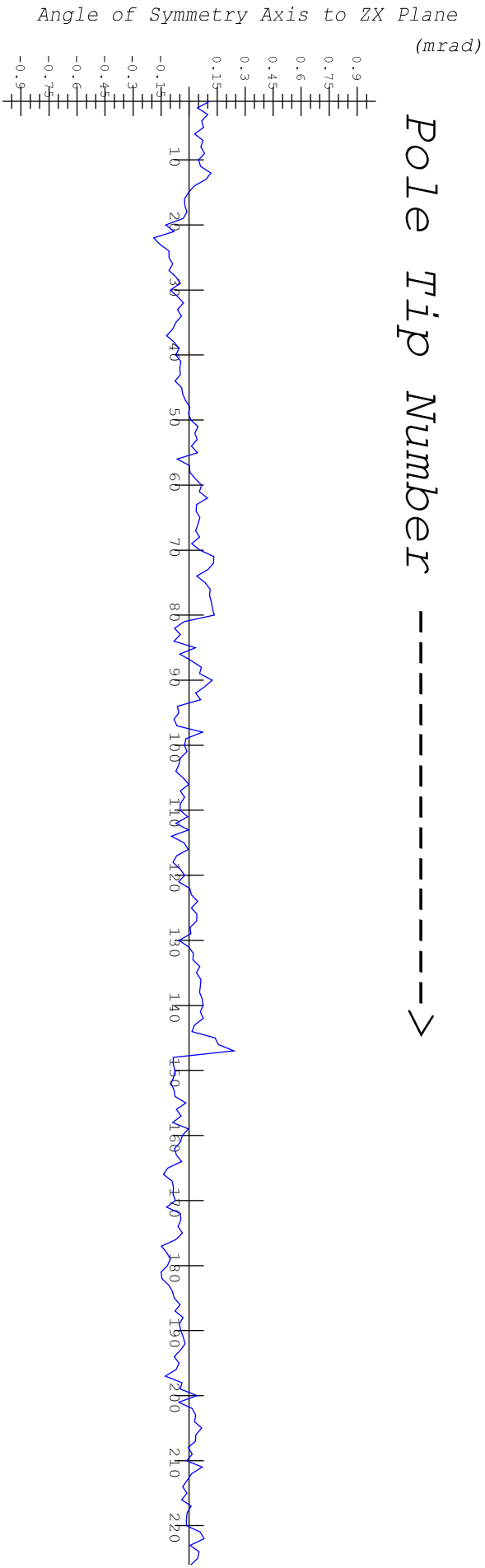
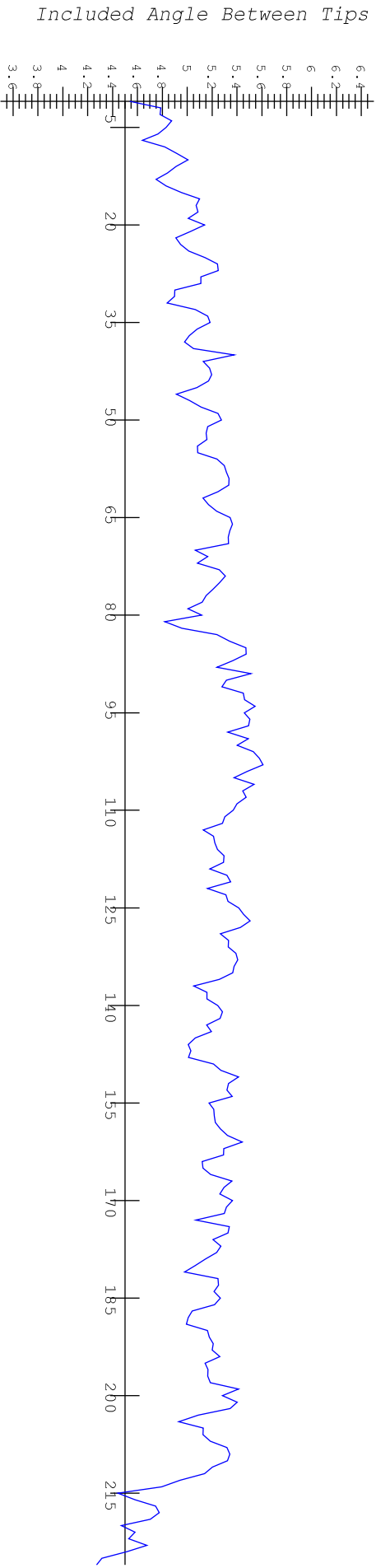
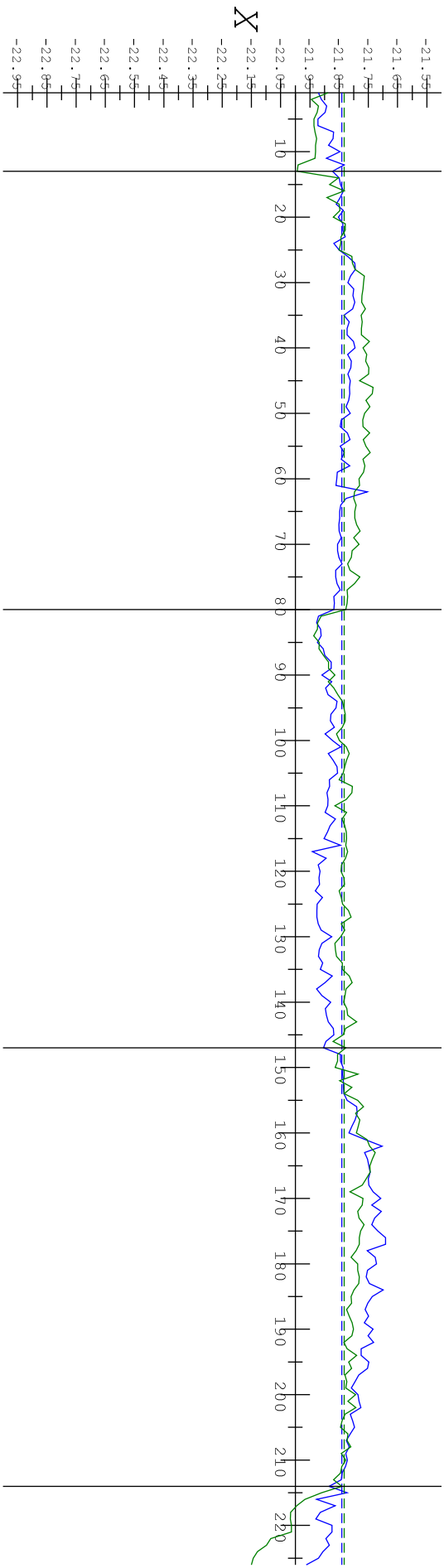
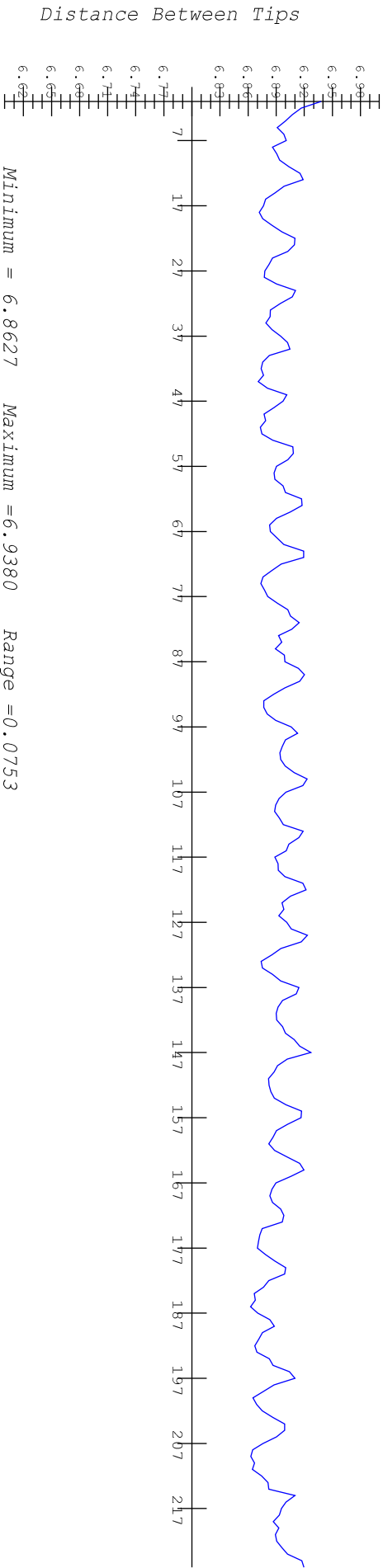




Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
Included Angle is the angle between the Upper and Lower Pole Tips

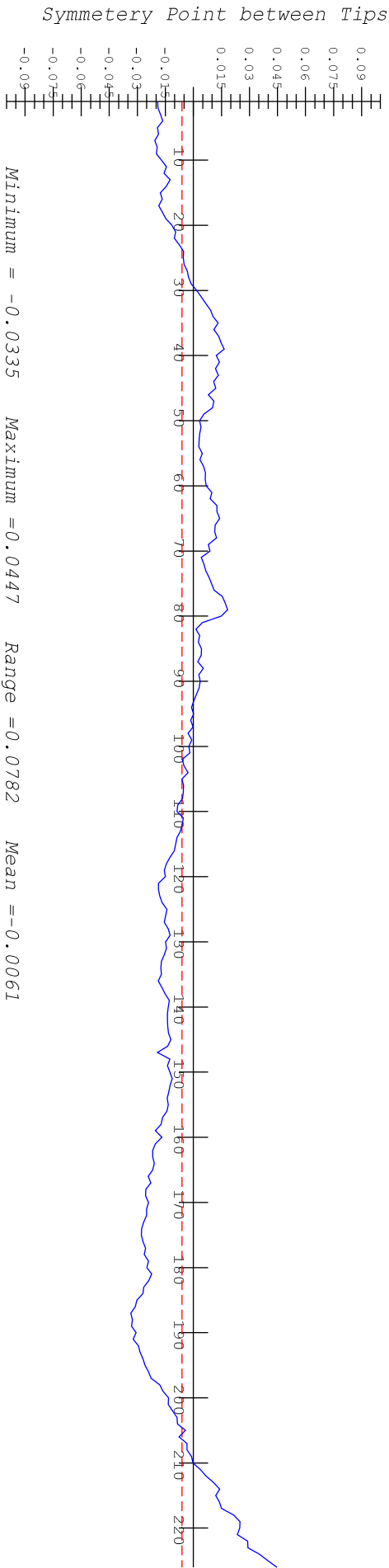
Pole Tip Number ----->





in mm

Pole Tip Number ----->



Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L
Broken Red line is Mean Value of Symmetry Points
Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L



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Undulator Pole Tip Location Post Magnetic Alignment

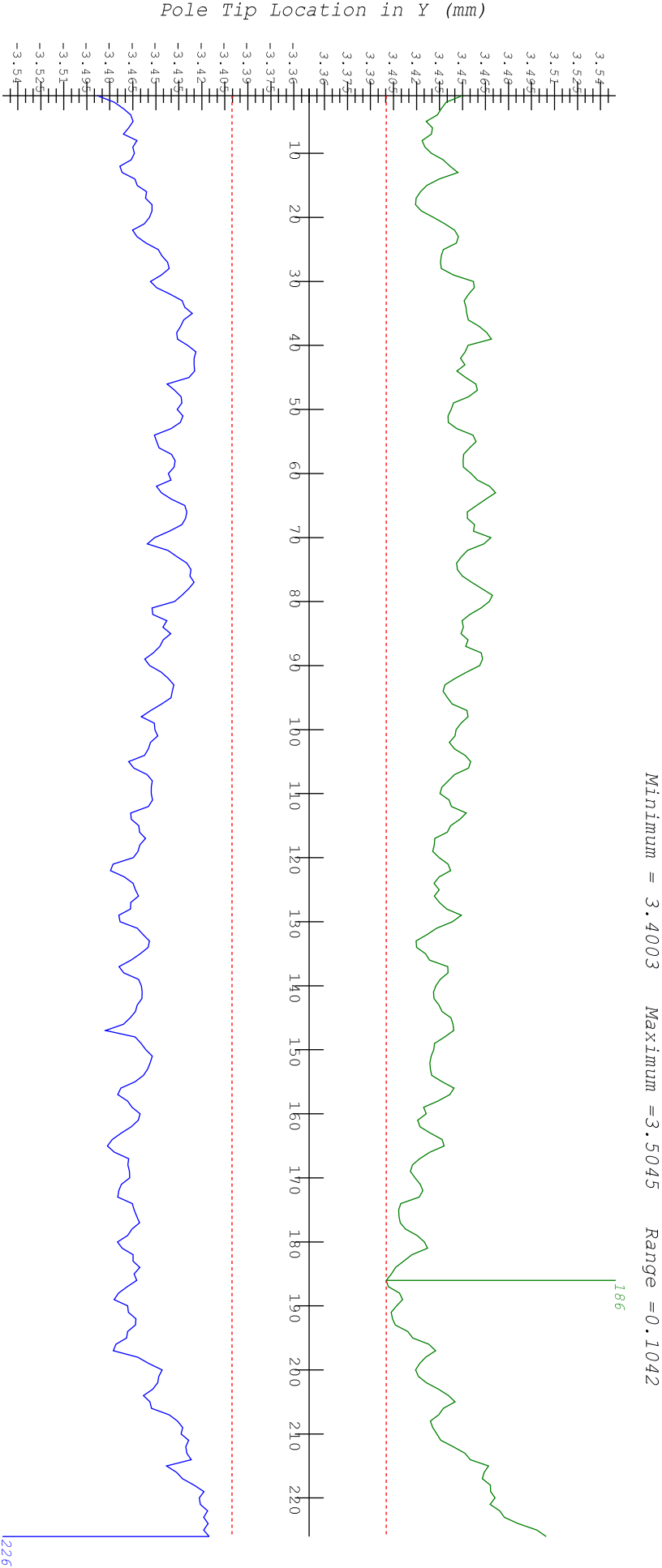
DATE: 06-NOV-2009

UNDULATOR # 13

DATASET # 25

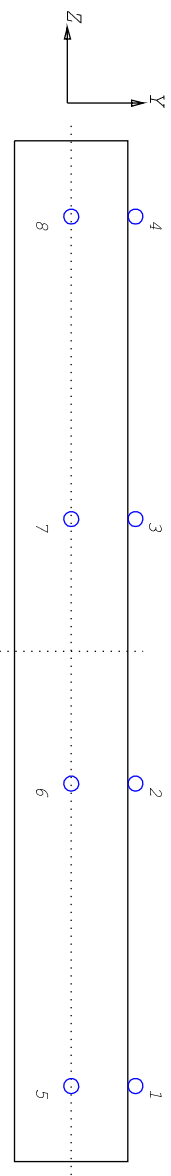
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Maximum Chamber Gap = 6.8005



Pole Tip Number ----->

Green = The position of the Upper Pole Tips at Magnetic C\L
Blue = The position of the Lower Pole Tips at Magnetic C\L
Max. Chamber Gap = The maximum width vacuum chamber that will fit centered on the Magnetic C\L (2*Min. Dev. from C\L)



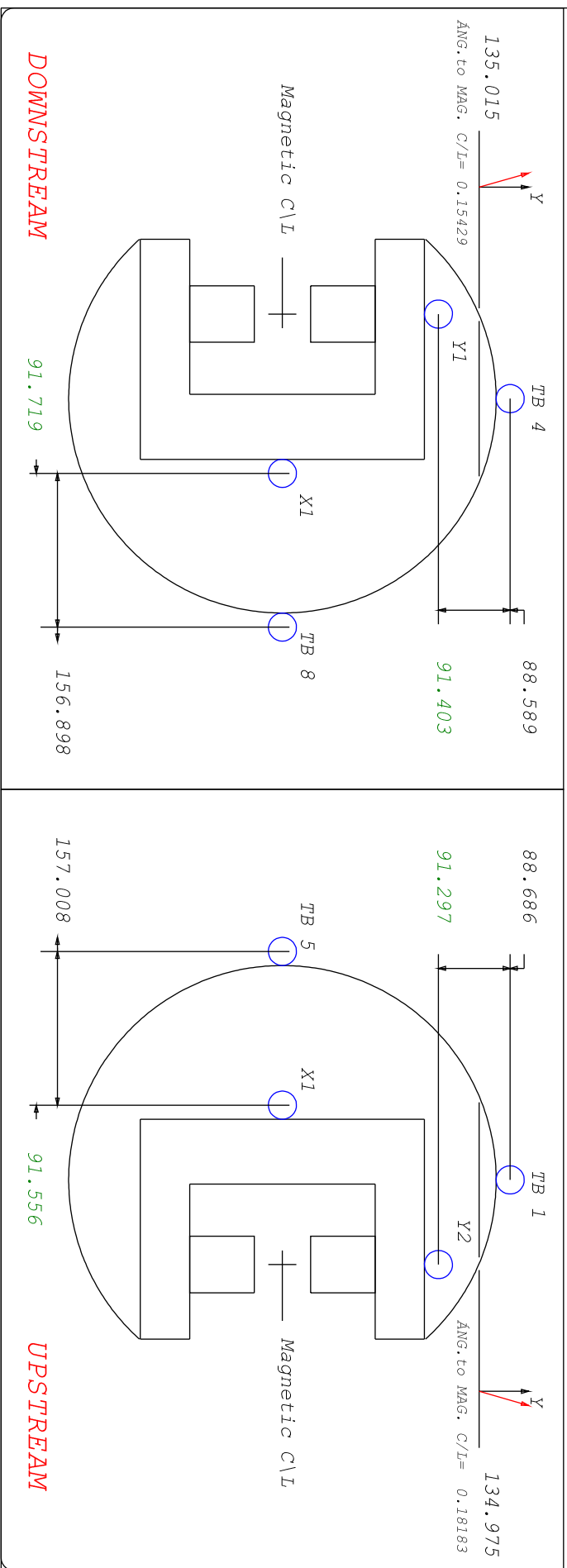
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2339	179.9834	-1558.283
2	0.3965	180.0106	-584.4547
3	0.3009	179.8960	591.3009
4	0.2578	179.9924	1562.0688
5	248.5639	0.0715	-1558.357
6	248.5406	-0.0239	-584.6033
7	248.5694	0.0427	591.3235
8	248.6174	-0.0589	1562.0816

Top Magnetic Structure	C/L Offset	Length
	-0.096	3381.048
Bottom Magnetic Structure	0.096	3381.272
Strongback	0.250	3399.772

Dimensions in mm

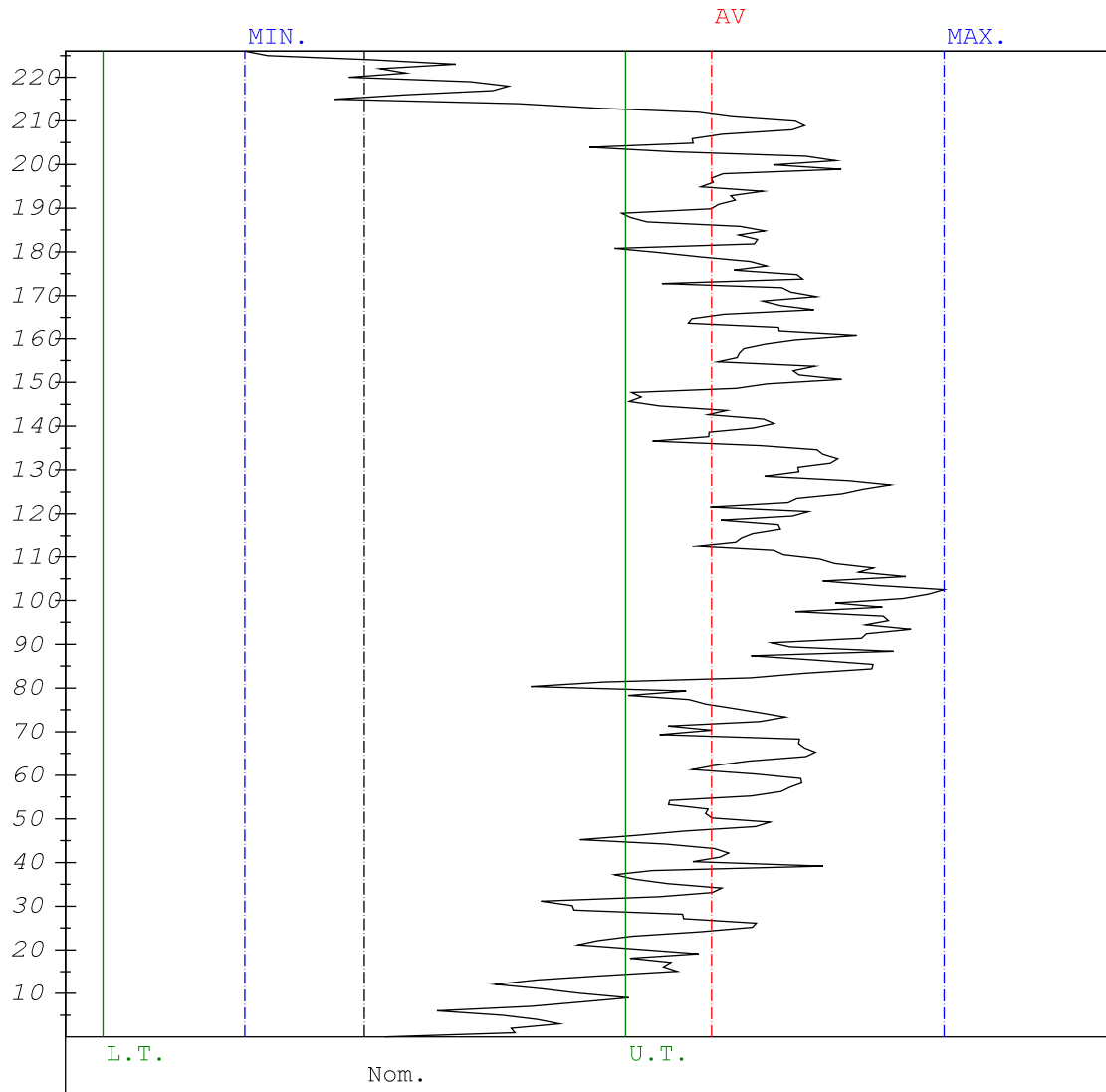
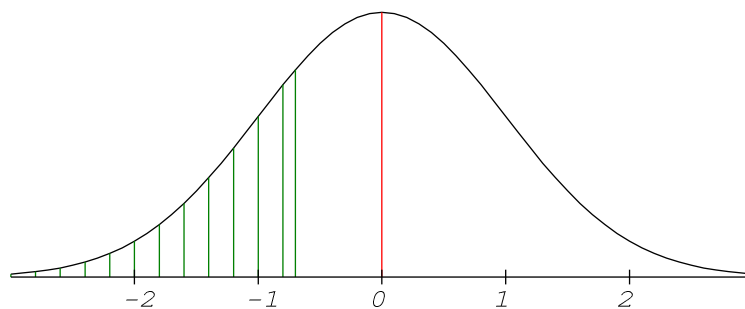
Angles in mrad



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Undulator Dimensional Fiducialization Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.1649	Cent.-Dev. : 0.6649
Up. Tol. : 0.5	Maximum : 5.6096	U.Tol.Ex. > : 75.8 %
Low.Tol. : -0.5	Minimum : 4.2714	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2357	In Tolerance: 24.2 %
Outlier : 0	Distribution : NOR	Dimension : mrad



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Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

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DATASET # 25

PROGRAM VERSION 2.9